



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification <sup>7</sup> : <b>C12Q 1/70</b>	<b>A2</b>	(11) International Publication Number: <b>WO 00/58524</b> (43) International Publication Date: 5 October 2000 (05.10.00)
<p>(21) International Application Number: PCT/US00/07828</p> <p>(22) International Filing Date: 24 March 2000 (24.03.00)</p> <p>(30) Priority Data: 60/127,464 31 March 1999 (31.03.99) US</p> <p>(71) Applicant (for all designated States except US): THE GOVERNMENT OF THE UNITED STATES OF AMERICA as represented by THE SECRETARY OF THE DEPARTMENT OF HEALTH AND HUMAN SERVICES [US/US]; Centers for Disease Control and Prevention, 255 East Paces Ferry Road, N.E. Room 500, Atlanta, GA 30333 (US).</p> <p>(72) Inventors; and (75) Inventors/Applicants (for US only): OBERSTE, Steven [US/US]; 5110 Sunset Maple Trail, Lilburn, GA 30047 (US). MAHER, Kaija [US/US]; 3014 Silvapine Trail, Atlanta, GA 30345 (US). KILPATRICK, David, R. [US/US]; 1095 Fulton Court, Norcross, GA 30093-4041 (US). PALLANSCH, Mark, A. [US/US]; 4749 Mockernut Court, Lilburn, GA 30047 (US).</p> <p>(74) Agents: SAMPLES, Kenneth, H. et al.; Fitch, Even, Tabin &amp; Flannery, Suite 1600, 120 South LaSalle Street, Chicago, IL 60603 (US).</p>	<p>(81) Designated States: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</p> <p><b>Published</b> Without international search report and to be republished upon receipt of that report.</p>	
(54) Title: TYPING OF HUMAN ENTEROVIRUSES		
<p>(57) Abstract</p> <p>The present invention discloses a method for detecting the presence of an enterovirus in a clinical sample. The invention additionally discloses a method for typing an enterovirus in a clinical sample. Both methods employ a set of primer oligonucleotides for reverse transcription and amplification that hybridize to conserved regions of the enterovirus genome, and that provide amplicons that include significant portions of the VP1 region that are characteristic of the various serotypes. In the typing method, the invention further provides a database consisting of nucleotide sequences from prototypical enteroviral serotypes, which is used to type the clinical sample by comparing the sequence of its amplicon with each prototypical sequence in the database. The invention additionally provides mixtures of primer oligonucleotides, and a kit for use in conducting the typing method that includes a mixture of the primer oligonucleotides.</p>		